

## Author Index

Aigler, J.M. and Lunsford, J.H.  
Oxidative dimerization of methane over MgO and Li<sup>+</sup>/MgO monoliths 29

Astier, M.P., see Kanoun, N. 225

Baiker, A., see Bassili, V.A. 325

Bassili, V.A. and Baiker, A.  
Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics 325

Benyahia, F. and Mearns, A.M.  
Selective oxidation of isobutene over multi-component molybdate catalyst 149

Berteau, B., Delmon, B., Dallons, J.-L. and Van Gysel, A.  
Acid-base properties of silica-aluminas: Use of 1-butanol dehydration as a test reaction 307

Brungrard, N.L., see Simone, D.O. 87

Burch, R. and Swarnakar, R.  
Oxidative dehydrogenation of ethane on vanadium-molybdenum oxide and vanadium-niobium-molybdenum oxide catalysts 129

Cant, N.W., see Wehrli, J.T. 253

Chang, L., see Zhuang, Q. 1

Chang, Y.J., see Ng, C.F.

Chuang, S.S.C., Pien, S.-I., Ghosal, K., Soong, Y., Noceti, R.P. and Schehl, R.R.  
Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C<sub>2</sub>+ oxygenate selectivity 101

Cheng, D.S., see Yang, B.L. 161

Crajé, M.W.J., de Beer, V.H.J. and van der Kraan, A.M.  
On the so-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalysts: Temperature dependence of the in-situ Mössbauer spectrum L7

Dallons, J.-L., see Berteau, B. 307

De Beer, V.H.J., see Crajé, M.W.J. L7

De Jong, A.M., see Meijers, A.C.Q.M. 53

Delmon, B., see Berteau, B. 307

Doblin, C., Mathews, J.F. and Turney, T.W.  
Hydrocracking and isomerization of n-octane and 2,2,4-trimethylpentane over a platinum/alumina-pillared clay 197

Ewen, R.J., see Jones, L.G. 277

Farrauto, R.J., see Simone, D.O. 87

Forzatti, P., see Lietti, L. 73

Ghosal, K., see Chuang, S.S.C. 101

Grau, J.M. and Parera, J.M.  
Deactivation of Pt-Re/Al<sub>2</sub>O<sub>3</sub> catalysts with different metallic surface 9

Haber, J., see Machej, T. 115

Hamada, H., Kintaichi, Y., Sasaki, M., Ito, T. and Tabata, M.  
Selective reduction of nitrogen monoxide with propane over alumina and HZSM-5 zeolite. Effect of oxygen and nitrogen dioxide intermediate L15

Honeybourne, C.L., see Jones, L.G. 277

Ito, T., see Hamada, H. L15

Iwamoto, M., see Sato, S. L1

Jablonski, E.L., see Pieck, C.L. 19

Jones, L.G., Nevell, T.G., Ewen, R.J. and Honeybourne, C.L.  
Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

Kanoun, N., Astier, M.P. and Pajonk, G.M.  
New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

Kennelly, T., see Simone, D.O. 87

Kim, Y.-C., Ueda, W. and Moro-oka, Y.  
Selective ammonoxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 189

Kim, Y.-C., Ueda, W. and Moro-oka, Y.  
Selective oxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 175

Kintaichi, Y., see Hamada, H. L15

Lee S.B., see Yang, B.L. 161

Levy, P.-J. and Primet, M.  
States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study 263

Lietti, L., Tronconi, E. and Forzatti, P.  
Synthesis of C<sub>2</sub>+ oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts 73

Lunsford, J.H., see Aigler, J.M. 29

Machej, T., Haber, J., Turek, A.M. and Wachs, I.E.  
Monolayer V<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub> and MoO<sub>3</sub>/TiO<sub>2</sub> catalysts prepared by different methods 115

Machocki, A.

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

Mathews, J.F., see Doblin, C. 197

Mearns, A.M., see Benyahia, F. 149

Meijers, A.C.Q.M., de Jong, A.M., van Gruijthuijsen, L.M.P. and Niemantsverdriet, J.W. Preparation of zirconium oxide on silica and characterization by X-ray photoelectron spectroscopy, secondary ion mass spectrometry, temperature programmed oxidation and infrared spectroscopy 53

Mizuno, N., see Sato, S. L1

Mol, J.C., see Spronk, S. 295

Morávek, V. Improvement of CSTR productivity by time-modulation of input concentration 287

Moro-oka, Y., see Kim, Y.-C. 175

Moro-oka, Y., see Kim, Y.-C. 189

Nevell, T.G., see Jones, L.G. 277

Ng, C.F., and Chang, Y.J. Arsine poisoning of nickel/silica catalysts. Hydrogen chemisorption study by magnetic method 213

Niemantsverdriet, J.W., see Meijers, A.C.Q.M. 53

Noceti, R.P., see Chuang, S.S.C. 101

Otterstedt, J.-E., Zhu, Y.-M. and Sterte, J. Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

Pajonk, G.M., see Kanoun, N. 225

Parera, J.M., see Grau, J.M. 9

Parera, J.M., see Pieck, C.L. 19

Pieck, C.L., Jablonski, E.L. and Parera, J.M. Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning 19

Pien, S.-I., see Chuang, S.S.C. 101

Primet, M., see Levy, P.-J. 263

Qin, Y., see Zhuang, Q. L1

Sasaki, M., see Hamada, H. L15

Sato, S., Yu-u, Y., Yahiro, H., Mizuno, N. and Iwamoto, M. Cu-ZSM-5 zeolite as highly active catalyst for removal of nitrogen monoxide from emission of diesel engines L1

Schehl, R.R., see Chuang, S.S.C. 101

Simone, D.O., Kennelly, T., Brungard, N.L. and Farrauto, R.J. Reversible poisoning of palladium catalysts for methane oxidation 87

Soong, Y., see Chuang, S.S.C. 101

Spronk, S. and Mol, J.C. Metathesis of 1-alkenes in the liquid phase over a  $\text{Re}_2\text{O}_7/\gamma\text{-Al}_2\text{O}_3$  catalyst. I. Reactivity of the alkenes 295

Sterte, J., see Otterstedt, J.-E. 43

Swarnakar, R., see Burch, R. 129

Tabata, M., see Hamada, H. L15

Thomas, D.J., see Wehrli, J.T. 253

Trimm, D.L., see Wehrli, J.T. 253

Tronconi, E., see Lietti, L. 73

Turek, A.M., see Machej, T. 115

Turney, T.W., see Doblin, C. 197

Ueda, W., see Kim, Y.-C. 175

Ueda, W., see Kim, Y.-C. 189

Van der Kraan, A.M., see Craje, M.W.J. L7

Van Gruijthuijsen, L.M.P., see Meijers, A.C.Q.M. 53

Van Gysel, A., see Berteau, B. 307

Wachs, I.E., see Machej, T. 115

Wainwright, M.S., see Wehrli, J.T. 253

Wehrli, J.T., Thomas, D.J., Wainwright, M.S., Trimm, D.L. and Cant, N.W. Selective hydrogenation of propyne over supported copper catalysts: Influence of support 253

Yahiro, H., see Sato, S. 70(L1)

Yang, B.L., Cheng, D.S. and Lee, S.B. Effect of steam on the oxidative dehydrogenation of butene over magnesium ferrites with and without chromium substitution 161

Yu-u, Y., see Sato, S. L1

Zhu, Y.-M., see Otterstedt, J.-E. 43

Zhuang, Q., Qin, Y. and Chang, L. Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming 1

## Subject Index

**Acetaldehyde**  
 Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C<sub>2+</sub> oxygenate selectivity 101

**Acid-base properties**  
 Acid-base properties of silica-aluminas: Use of 1-butanol dehydration as a test reaction 307

**Acrolein**  
 Selective oxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 175

**Acrylonitrile**  
 Selective ammonoxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 189

**Active matrices**  
 Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Adsorption**  
 Improvement of CSTR productivity by time-modulation of input concentration 287

**Adsorption**  
 Arsine poisoning of nickel/silica catalysts. Hydrogen chemisorption study by magnetic method 213

**Adsorption**  
 States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study 263

**Ageing**  
 Selective hydrogenation of propyne over supported copper catalysts: Influence of support 253

**Alkali addition**  
 Synthesis of C<sub>2+</sub> oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts 73

**Alkene metathesis**  
 Metathesis of 1-alkenes in the liquid phase over a Re<sub>2</sub>O<sub>7</sub>/γ-Al<sub>2</sub>O<sub>3</sub> catalyst. I. Reactivity of the alkenes 295

**Alkynes**  
 Selective hydrogenation of propyne over supported copper catalysts: Influence of support 253

**Alumina**  
 Improvement of CSTR productivity by time-modulation of input concentration 287

**Alumina**  
 Selective reduction of nitrogen monoxide with propane over alumina and HZSM-5 zeolite. Effect of oxygen and nitrogen dioxide intermediate L15

**Alumina-silica**  
 Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Amination**  
 Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics 325

**2-Amino-1-methoxypropane**  
 Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics 325

**Ammonoxidation**  
 Selective ammonoxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 189

**Arsine poisoning**  
 Arsine poisoning of nickel/silica catalysts. Hydrogen chemisorption study by magnetic method 213

**Atomic rates**  
 New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

**Bifunctional catalyst**  
 Hydrocracking and isomerization of n-octane and 2,2,4-trimethylpentane over a platinum/alumina-pillared clay 197

**Butanol dehydration**  
 Acid-base properties of silica-aluminas: Use of 1-butanol dehydration as a test reaction 307

**Butene oxidative dehydrogenation**  
 Effect of steam on the oxidative dehydrogenation of butene over magnesium ferrites with and without chromium substitution 161

**Carbon monoxide hydrogenation**

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

**Carbon monoxide hydrogenation**

Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C<sub>2+</sub> oxygenate selectivity 101

**Carbonaceous deposit**

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

**Catalyst characterization (adsorption, FT-IR, TPD)**

Acid-base properties of silica-aluminas: Use of 1-butanol dehydration as a test reaction 307

**Catalyst characterization (BET, nitric oxide decomposition)**

New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

**Catalyst characterization (calorimetry, XPS)**

Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

**Catalyst characterization (IR, SIMS, TPO, XPS)**

Preparation of zirconium oxide on silica and characterization by X-ray photoelectron spectroscopy, secondary ion mass spectrometry, temperature programmed oxidation and infrared spectroscopy 53

**Catalyst characterization (TGA, TPR)**

Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming 1

**Catalyst characterization (TPD, XRD)**

Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C<sub>2+</sub> oxygenate selectivity 101

**Catalyst characterization (TPD)**

States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study 263

**Catalyst characterization (TPO)**

Deactivation of Pt-Re/Al<sub>2</sub>O<sub>3</sub> catalysts with different metallic surface 9

**Catalyst characterization (TPO)**

Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning 19

**Catalyst characterization (TPSR)**

Synthesis of C<sub>2+</sub> oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts 73

**Catalyst preparation (co-precipitation)**

Selective oxidation of isobutene over multi-component molybdate catalyst 149

**Catalyst preparation (coprecipitation, wet impregnation)**

Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C<sub>2+</sub> oxygenate selectivity 101

**Catalyst preparation (monolith)**

Oxidative dimerization of methane over MgO and Li<sup>+</sup>/MgO monoliths 29

**Catalyst preparation (precipitation)**

Preparation of zirconium oxide on silica and characterization by X-ray photoelectron spectroscopy, secondary ion mass spectrometry, temperature programmed oxidation and infrared spectroscopy 53

**Catalytic oxidation**

Selective oxidation of propane involving homogeneous and heterogeneous steps over multi-component metal oxide catalysts 175

**Cerium oxide**

Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming 1

**Chloride effects**

Reversible poisoning of palladium catalysts for methane oxidation 87

**Chromium**

Effect of steam on the oxidative dehydrogenation of butene over magnesium ferrites with and without chromium substitution 161

**Cluster model**

Arsine poisoning of nickel/silica catalysts. Hydrogen chemisorption study by magnetic method 213

**Co-Mo-S phase**

On the so-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalysts: Temperature dependence of the in-situ Mössbauer spectrum L7

**Cobalt sulphide/carbon**

On the so-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalysts: Temperature dependence of the in-situ Mössbauer spectrum L7

**Coke**

Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning 19

**Coke deposition**

Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming 1

**Coke formation**

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

**Coke formation**

Synthesis of C<sub>2+</sub> oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts 73

**Coke formation**

Deactivation of Pt-Re/Al<sub>2</sub>O<sub>3</sub> catalysts with different metallic surface 9

**Combustion**

Reversible poisoning of palladium catalysts for methane oxidation 87

**Continuous stirred tank reactor**

Improvement of CSTR productivity by time-modulation of input concentration 287

**Copper**

Selective hydrogenation of propyne over supported copper catalysts: Influence of support 253

**Copper ion**

Cu-ZSM-5 zeolite as highly active catalyst for removal of nitrogen monoxide from emission of diesel engines 11

**Copper-zinc**

New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

**Cracking catalysts**

Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Deactivation**

Deactivation of Pt-Re/Al<sub>2</sub>O<sub>3</sub> catalysts with different metallic surface 9

**Deactivation**

Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

**Ethane dehydrogenation**

Oxidative dehydrogenation of ethane on vanadium-molybdenum oxide and vanadium-niobium-molybdenum oxide catalysts 129

**Ethanol dehydrogenation**

New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

**Gasoline**

Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Heavy oil**

Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Hydrocarbons distribution**

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

**Hydrocracking**

Hydrocracking and isomerization of n-octane and 2,2,4-trimethylpentane over a platinum/alumina-pillared clay 197

**Hydrogen**

States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study 263

**Hydrothermal treatment**

Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Iron-based catalysts**

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

**Iron-cobalt catalyst**

Formation of carbonaceous deposit and its effect on carbon monoxide hydrogenation on iron-based catalysts 237

**Isobutene**

Selective oxidation of isobutene over multi-component molybdate catalyst 149

**Kinetics**

Improvement of CSTR productivity by time-modulation of input concentration 287

**Kinetics**

Selective oxidation of isobutene over multi-component molybdate catalyst	149
<b>Kinetics</b>	
Selective hydrogenation of propyne over supported copper catalysts: Influence of support	253
<b>Kinetics</b>	
Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics	325
<b>Kinetics</b>	
Metathesis of 1-alkenes in the liquid phase over a $\text{Re}_2\text{O}_7/\gamma\text{-Al}_2\text{O}_3$ catalyst. I. Reactivity of the alkenes	295
<b>Lithium promoted</b>	
Oxidative dimerization of methane over $\text{MgO}$ and $\text{Li}^+/\text{MgO}$ monoliths	29
<b>Mössbauer spectroscopy</b>	
On the so-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalysts: Temperature dependence of the in-situ Mössbauer spectrum	L7
<b>Magnesium ferrites</b>	
Effect of steam on the oxidative dehydrogenation of butene over magnesium ferrites with and without chromium substitution	161
<b>Magnesium oxide</b>	
Oxidative dimerization of methane over $\text{MgO}$ and $\text{Li}^+/\text{MgO}$ monoliths	29
<b>Magnetic method</b>	
Arsine poisoning of nickel/silica catalysts. Hydrogen chemisorption study by magnetic method	213
<b>Manganese-nickel</b>	
Carbon monoxide hydrogenation over $\text{Na}-\text{Mn}-\text{Ni}$ catalysts: Effects of preparation methods on the $\text{C}_2+$ oxygenate selectivity	101
<b>Methacrolein</b>	
Selective oxidation of isobutene over multi-component molybdate catalyst	149
<b>Methane</b>	
Reversible poisoning of palladium catalysts for methane oxidation	87
<b>Methane</b>	
Oxidative dimerization of methane over $\text{MgO}$ and $\text{Li}^+/\text{MgO}$ monoliths	29
<b>Methanol homologation</b>	
Synthesis of $\text{C}_2+$ oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts	73
<b>1-Methoxypropan-2-ol</b>	
Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics	325
<b>4-Methyl-2-pentanol dehydration</b>	
Acid-base properties of silica-aluminas: Use of 1-butanol dehydration as a test reaction	307
<b>Molybdena/titania</b>	
Monolayer $\text{V}_2\text{O}_5/\text{TiO}_2$ and $\text{MoO}_3/\text{TiO}_2$ catalysts prepared by different methods	115
<b>Molybdenum</b>	
Oxidative dehydrogenation of ethane on vanadium-molybdenum oxide and vanadium-niobium-molybdenum oxide catalysts	129
<b>Monoliths</b>	
Oxidative dimerization of methane over $\text{MgO}$ and $\text{Li}^+/\text{MgO}$ monoliths	29
<b>Multicomponent molybdate catalyst</b>	
Selective oxidation of isobutene over multi-component molybdate catalyst	149
<b>Nickel</b>	
Carbon monoxide hydrogenation over $\text{Na}-\text{Mn}-\text{Ni}$ catalysts: Effects of preparation methods on the $\text{C}_2+$ oxygenate selectivity	101
<b>Nickel</b>	
Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming	1
<b>Nickel/silica</b>	
Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics	325
<b>Nickel/silica</b>	
Arsine poisoning of nickel/silica catalysts. Hydrogen chemisorption study by magnetic method	213
<b>Niobium</b>	
Oxidative dehydrogenation of ethane on vanadium-molybdenum oxide and vanadium-niobium-molybdenum oxide catalysts	129
<b>Nitrogen monoxide</b>	
Cu-ZSM-5 zeolite as highly active catalyst for removal of nitrogen monoxide from emission of diesel engines	L1
<b>Nitrogen monoxide reduction</b>	
Selective reduction of nitrogen monoxide with propane over alumina and HZSM-5 zeolite. Effect of oxygen and nitrogen dioxide intermediate	L15

**Octane isomerization**

- Hydrocracking and isomerization of n-octane and 2,2,4-trimethylpentane over a platinum/alumina-pillared clay 197

**Oxidation**

- Reversible poisoning of palladium catalysts for methane oxidation 87

**Oxidation**

- Oxidative dimerization of methane over MgO and Li<sup>+</sup>/MgO monoliths 29

**Oxidative demermination**

- Oxidative dimerization of methane over MgO and Li<sup>+</sup>/MgO monoliths 29

**Oxygenates**

- Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C<sub>2+</sub> oxygenate selectivity 101

**Oxygenates synthesis**

- Synthesis of C<sub>2+</sub> oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts 73

**Palladium/alumina**

- Reversible poisoning of palladium catalysts for methane oxidation 87

**Palladium foil**

- Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

**Palladium oxide**

- Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

**Palladium/thoria**

- Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

**Pellistors**

- Oxidation state of the surface of palladium in the catalytic combustion of hydrogen 277

**Pillared clay**

- Hydrocracking and isomerization of n-octane and 2,2,4-trimethylpentane over a platinum/alumina-pillared clay 197

**Platinum**

- Hydrocracking and isomerization of n-octane and 2,2,4-trimethylpentane over a platinum/alumina-pillared clay 197

**Platinum/alumina**

- Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning 19

**Platinum/alumina**

- States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study 263

**Platinum/ceria**

- States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study 263

**Platinum-rhenium/alumina**

- Deactivation of Pt-Re/Al<sub>2</sub>O<sub>3</sub> catalysts with different metallic surface 9

**Platinum-rhenium/alumina**

- Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning 19

**Poisoning**

- Reversible poisoning of palladium catalysts for methane oxidation 87

**Pore structure**

- Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Propan-2-ol dehydrogenation**

- Improvement of CSTR productivity by time-modulation of input concentration 287

**Propane**

- Selective ammoxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 189

**Propane**

- Selective reduction of nitrogen monoxide with propane over alumina and HZSM-5 zeolite. Effect of oxygen and nitrogen dioxide intermediate L15

**Propane**

- Selective oxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts 175

**Propyne hydrogenation**

- Selective hydrogenation of propyne over supported copper catalysts: Influence of support 253

**Raman spectroscopy**

- Monolayer V<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub> and MoO<sub>3</sub>/TiO<sub>2</sub> catalysts prepared by different methods 115

**Redox model**

- Selective oxidation of isobutene over multicomponent molybdate catalyst 149

**Reforming**

Deactivation of Pt-Re/Al <sub>2</sub> O <sub>3</sub> catalysts with different metallic surface	9	Synthesis of C <sub>2+</sub> oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts	73
<b>Reforming</b>		<b>Silica-alumina</b>	
Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning	19	Acid-base properties of silica-aluminas: Use of 1-butanol dehydration as a test reaction	307
<b>Regeneration</b>		Sodium-manganese-nickel	
Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning	19	Carbon monoxide hydrogenation over Na-Mn-Ni catalysts: Effects of preparation methods on the C <sub>2+</sub> oxygenate selectivity	101
<b>Rhenium oxide/alumina</b>		<b>Steam reforming</b>	
Metathesis of 1-alkenes in the liquid phase over a Re <sub>2</sub> O <sub>7</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst. I. Reactivity of the alkenes	295	Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming	1
<b>Scheelite-oxide</b>		<b>Steam treatment</b>	
Selective oxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts	175	Effect of steam on the oxidative dehydrogenation of butene over magnesium ferrites with and without chromium substitution	161
<b>Scheelite-type catalyst</b>		<b>Strong metal-support interaction</b>	
Selective ammoxidation of propane involving homogeneous and heterogeneous steps over multicomponent metal oxide catalysts	189	Promoting effect of cerium oxide in supported nickel catalyst for hydrocarbon steam-reforming	1
<b>Selective oxidation</b>		<b>Sulphided catalysts</b>	
Selective oxidation of isobutene over multicomponent molybdate catalyst	149	Recovering of the catalytic functions of naphtha reforming catalysts by partial coke burning	19
<b>Selective reduction</b>		<b>Support effects</b>	
Cu-ZSM-5 zeolite as highly active catalyst for removal of nitrogen monoxide from emission of diesel engines	L1	Selective hydrogenation of propyne over supported copper catalysts: Influence of support	253
<b>Selectivity (2-amino-1-methoxypropane)</b>		<b>Surface characterization</b>	
Catalytic amination of 1-methoxypropan-2-ol over silica supported nickel. Modelling of reaction kinetics	325	Preparation of zirconium oxide on silica and characterization by X-ray photoelectron spectroscopy, secondary ion mass spectrometry, temperature programmed oxidation and infrared spectroscopy	53
<b>Selectivity (butadiene)</b>		<b>Temperature dependence</b>	
Effect of steam on the oxidative dehydrogenation of butene over magnesium ferrites with and without chromium substitution	161	On the so-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalysts: Temperature dependence of the in-situ Mössbauer spectrum	L7
<b>Selectivity (ethane, ethene)</b>		<b>Temperature-programmed desorption</b>	
Oxidative dimerization of methane over MgO and Li <sup>+</sup> /MgO monoliths	29	States of hydrogen adsorption on platinum-alumina and platinum-ceria catalysts. A temperature-programmed desorption study	263
<b>Selectivity (ethanol)</b>		<b>Vanadia/titania</b>	
New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol	225	Monolayer V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> and Mo <sub>3</sub> /TiO <sub>2</sub> catalysts prepared by different methods	115
<b>Selectivity (ethene)</b>		<b>Vanadium</b>	
Oxidative dehydrogenation of ethane on vanadium-molybdenum oxide and vanadium-niobium-molybdenum oxide catalysts	129		
<b>Selectivity (higher alcohols)</b>			

Oxidative dehydrogenation of ethane on vanadium-molybdenum oxide and vanadium-niobium-molybdenum oxide catalysts 129

**Vanadium-copper-zinc**

New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

**Vanadium-copper**

New vanadium-copper-zinc catalysts, their characterization and use in the catalytic dehydrogenation of ethanol 225

**Zeolites**

Cu-ZSM-5 zeolite as highly active catalyst for removal of nitrogen monoxide from emission of diesel engines L1

**Zeolites**

Selective reduction of nitrogen monoxide with propane over alumina and HZSM-5 zeolite.

Effect of oxygen and nitrogen dioxide intermediate L15

**Zeolites**

Effects of matrix alumina-silica ratio on the performance of heavy oil cracking catalysts containing zeolite Y in matrices of amorphous silica-alumina 43

**Zinc-chromium oxide**

Synthesis of  $C_2+$  oxygenates from methanol at atmospheric pressure over alkali-promoted zinc-chromium oxide catalysts 73

**Zirconium oxide/silica**

Preparation of zirconium oxide on silica and characterization by X-ray photoelectron spectroscopy, secondary ion mass spectrometry, temperature programmed oxidation and infrared spectroscopy 53